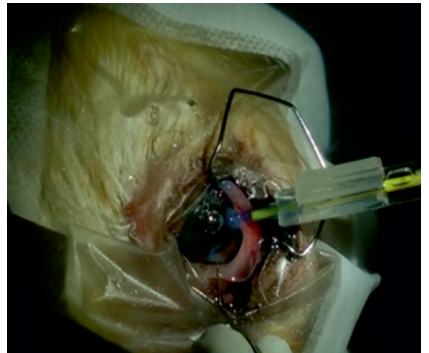


S.K. JHIRWAL

# CATARACT SURGERY IN DOGS



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# **Cataract Surgery in Dogs**

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## About the Author



**Dr. Suresh Kumar Jhirwal**, Senior Assistant Professor, Department of Veterinary Surgery and Radiology is serving at College of Veterinary and Animal Science, Bikaner, Rajasthan University of Veterinary and Animal Sciences, Bikaner, since July 2014 after completing his successful tenure of 13 years and 7 months in the Department of Animal Husbandry, Government of Rajasthan.

After joining the University as an Assistant Professor he proved his work excellence as a Veterinary surgeon by contributing in new techniques i.e. Cataract surgery in dogs by Phacoemulsification and IOL implant using an operating microscope. He became the first Veterinary Surgeon of Rajasthan state to perform successful cataract surgery by phacoemulsification method in dogs. His work was recognised by the Rajasthan University of Veterinary and Animal Sciences, Bikaner, District administration, Bikaner, Government of Rajasthan, and many other organizations by felicitating him on various occasions.

In due course, he strengthened his skill and presented his work of ophthalmology on different platforms, and disseminated the knowledge. He won three consecutive GOLD MEDALS for best papers in the field of veterinary ophthalmology at the Annual congress of the Indian Society for Veterinary Surgery from 2017-2019.

He has guided 14 students in their masters' research out of which 11 conducted their research in the field of ophthalmology. He has 92 scientific publications to his credit and attended many conferences/symposiums/workshops of National and International repute. He is a member of six Scientific National and International organizations.

He is a popular invited expert to deliver offline or online technical lectures/webinars on different topics for veterinary ophthalmology. He is committed to develop the diverse specialities of veterinary ophthalmology in a long way.

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© 2023, Publisher

ISBN: 978-81-19002-64-1

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# Acknowledgments

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Writing a book is a collaborative effort and I would like to take this opportunity to thank all the people who have advised and encouraged me in this project.

At the outset, I bow my head to pay gratitude to my mentor a renowned scientist and worthy Professor T.K.Gahlot whose continuous motivation inspired me to learn the skills of veterinary ophthalmology which I never thought I would go. His keen interest in veterinary ophthalmology and zeal to procure required resources helped me to focus on the treatment, teaching, and research aspect of veterinary ophthalmology.

I also owe my heartfelt thanks to Dr. Sonia Gahlot, a human ophthalmologist; Dr. D.B.Patil, Professor, Veterinary Surgery, Kamdhenu University and Dr. Shasikant Mahajan, Professor, Veterinary Surgery, GADVASU are the persons who helped me to standardize the cataract surgery at CVAS, Bikaner. Their wholehearted support is acknowledged with much gratitude.

My special thanks goes to Dr. P. Bishnoi, Professor and Head, Veterinary Surgery and Radiology, CVAS, Bikaner for his unconditional support at the department.

Finally, I thank to my students who gave me the opportunity to strengthen my skills and academia in the field of veterinary ophthalmology while guiding them in their Master and Doctoral research projects.



# Preface

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Undoubtedly, Veterinary Ophthalmology developed with a slower pace in India because of lack of skilled personnels, inadequate instruments required for ophthalmic surgery of small and large animals and less number of availability of clinical cases. Gradually, owing to more awareness by pet and livestock owners they in turn had greater expectations from Veterinary Surgeons for application of advanced diagnostic and surgical procedures to treat the diverse ophthalmic affections. This was perhaps a triggering impetus to learn the modern veterinary ophthalmology and I got inspired to learn and develop this speciality in Clinic of my college.

Eventually, turning point came through the then Professor and Head, Dr T.K.Gahlot who succeeded to bring a well-funded project, i.e. Diagnostic Imaging and Management of Surgical Conditions of Animals (DIMSCA) from Indian Council of Agricultural Research (ICAR) through a visionary Deputy Director General- Prof. K.M.L.Pathak. Provisions were made to buy operating microscope, phacoemulsification and electroretinography instruments in addition to the basic ophthalmic surgery instruments. First exclusive small animal ophthalmic surgery operation theatre was established to standardize the diagnosis of diverse ophthalmic affections and cataract surgery in dogs. Prof. T.K. Gahlot further strengthened this speciality by procuring more ophthalmic instruments through Maharaja Ganga Singh Trust.

Ophthalmic surgery in small animals was done on clinical cases and became a part of clinical research at masters and doctorate level too. Cataract surgery in dogs was thus standardized with or without IOL employing either ECCE or phacoemulsification technique. An experienced team of medical and veterinary ophthalmologists also helped us from time to time while learning it.

The success story of operated cataract cases helped me to build up confidence and I not only continued doing cataract surgery in dogs but trained many vets and delivered several lectures through continuing education programmes organized by many veterinary colleges pan India. I am sure that the contents of this book would be a great help to those who are learning and practicing cataract surgery in pet animals.

**Author**



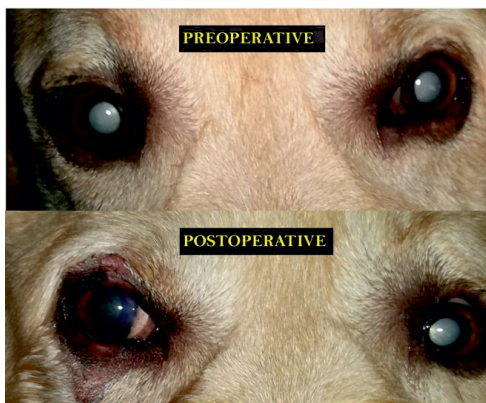
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# CATARACT SURGERY IN DOGS



The purpose of this book is to aid veterinary students and practitioners in the diagnosis and surgical management of cataract in dogs. Although this book is written primarily for cataract in dogs but the procedure can be applied for other pet and farm animals too with slight modifications. This book is consisting of 11 chapters viz; Introduction, Anatomy of lens, Definition of Cataract, Incidence of Cataract, Causes of Cataract, Pathogenesis of Cataract, Classification of Cataract, Diagnosis of Cataract, Selection of patient for surgery, Surgical management of cataract, and Complications of Cataract surgery. Each chapter provides a brief and practical knowledge in easily understandable text.

The color photographs of procedure and instruments will certainly aid practitioners in diagnosis and surgical management of cataract.

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